

Making Sense of NAICS Changes:

An Overview of the Economic Census Comparative and Bridge Statistics Reports

2017 Economic Census Webinar
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U.S. Census Bureau

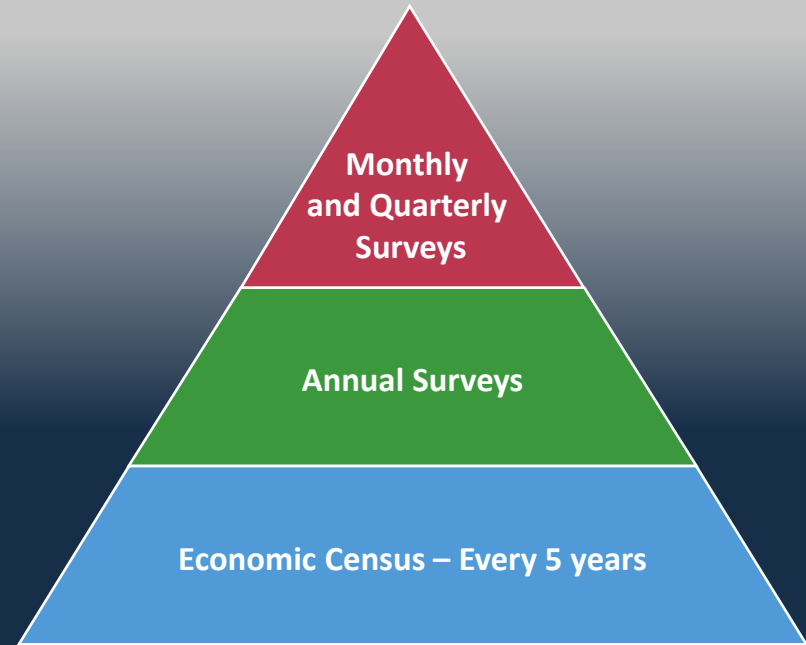


About the Census Bureau

- The U.S. Census Bureau is the federal government's largest statistical agency.
- We conduct more than 130 censuses and surveys each year, including:
 - **The Decennial Census** – the once-a-decade population and housing count of the United States.
 - **The American Community Survey** – the ongoing annual survey of the nation's population.
 - **The Economic Census** – the official five-year measure of American business.
 - **The Census of Governments** – identifies the scope and nature of the nation's state and local government sector.
- Our mission is to serve as the leading source of quality data about America's people, places, and **economy**.

The screenshot shows the U.S. Census Bureau website. At the top, there's a navigation bar with the 'Census' logo, a search bar, and links for 'BROWSE BY TOPIC', 'EXPLORE DATA', 'LIBRARY', 'SURVEYS/PROGRAMS', 'INFORMATION FOR...', 'FIND A CODE', and 'ABOUT US'. The main header features a large image of a diverse group of people on a rooftop, with the text 'Counties in South and West Lead Nation in Population Growth' and a 'Read More' link. To the right, a 'POPULATION CLOCK' shows the current population as 328,837,726. Below this, 'U.S. CENSUS BUREAU ECONOMIC INDICATORS' are listed, including 'Advance International Trade Goods', 'Advance Retail Inventories', 'Advance Wholesale Inventories', and 'Manufacturers' Goods'. The 'Latest News' section includes press releases about new earnings and employment data for college graduates, the 2017 Census of Governments Data & Individual State Descriptions Report, and the 2018 Voting and Registration Data. The 'America Counts: Stories Behind the Numbers' section features stories about migration flows, the impact of the tech boom on housing, and the opioid crisis and grandparents raising grandchildren.

<https://www.census.gov/>



Census Economic Surveys

- Census Bureau Economic Surveys are a key source for official statistics companies can use:
 - Monthly and Quarterly are small sample surveys that provide the most **TIMELY** data available.
 - Annual surveys have larger samples and provide the most up-to-date **TREND** data available.
 - Every 5 years, the Economic Census measures all businesses and provides the most **COMPREHENSIVE** data available.
- These surveys set the standard for U.S. economic statistics, and are fueled by the data provided by individual businesses.

One of the Two Unifying Characteristics – NAICS

- Based on a trilateral agreement (U.S., Canada, Mexico).
- Updated every 5 years to reflect changing economies.
 - Include the years ending in “2” and “7”.
 - Changes announced in [Federal Register Notices](#).
- Nearly every Census Bureau program publishes on this basis.
 - NAICS coverage does vary by survey.
 - NAICS vintage also varies by survey and survey year.
- Most other federal agencies and private sector companies also publish on this basis.
 - NAICS coverage and vintage do vary by provider.
 - Some programs still publish on the SIC basis.
- The resources on the [NAICS site](#) include Search.

EXCEPTIONS:

- Selected Census Economic Indicators
 - “Special” programs (like BRDIS)
- Public Sector (Governments) programs

Table 1. Value of Manufacturers' Shipments for Industry Groups¹

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly			Year to date			
	May 2021 ²	Apr. 2021 ¹	Mar. 2021	Apr. - May	Mar. - Apr.	Feb. - Mar.	May 2021 ²	Apr. 2021 ¹	Mar. 2021	May 2020	2021 ²	2020	% Change 2021/ 2020
All manufacturing industries.....	490,436	487,131	486,040	0.7	0.2	2.1	495,162	489,567	518,296	392,244	2,390,523	2,126,046	12.4
Excluding transportation.....	419,414	415,807	412,617	0.9	0.8	1.9	425,738	418,528	434,959	350,051	2,031,515	1,827,893	11.1
Excluding defense.....	476,548	472,913	472,494	0.8	0.1	2.2	481,678	476,017	503,381	379,611	2,324,352	2,063,145	12.7
With unfilled orders.....	174,057	174,358	170,761	-0.2	2.1	2.6	172,956	173,459	186,725	139,822	841,729	760,612	10.7
Durable goods industries.....	248,312	247,366	247,434	0.4	0.0	2.7	246,241	247,630	269,425	188,220	1,211,633	1,049,222	15.5
Wood products.....	11,753	11,439	11,231	2.7	1.9	4.9	12,589	12,209	11,328	9,027	54,914	42,406	29.5
Nonmetallic mineral products.....	11,520	11,494	11,495	0.2	0.0	1.6	11,725	11,824	11,529	10,806	54,804	51,222	7.0
Primary metals.....	22,226	21,847	21,103	1.7	3.5	4.8	22,602	22,788	23,085	16,279	108,355	91,533	18.4
Iron and steel mills.....	11,018	10,687	10,329	3.1	3.5	3.5	11,366	11,305	11,504	7,716	54,296	44,983	20.7
Aluminum and nonferrous metals.....	9,911	9,914	9,540	0.0	3.9	5.7	9,914	10,179	10,206	7,424	47,877	40,204	19.1
Ferrous metal foundries.....	1,297	1,246	1,234	4.1	1.0	8.7	1,322	1,304	1,375	1,139	6,182	6,346	-2.6
Fabricated metal products.....	33,326	33,305	33,018	0.1	0.9	3.4	33,813	33,959	34,727	27,464	162,236	144,125	12.6
Machinery.....	35,195	34,707	34,165	1.4	1.6	2.4	35,415	35,252	38,073	29,206	170,547	151,682	12.4
Farm machinery.....	2,575	2,544	2,620	1.2	-2.9	-3.6	2,714	3,247	3,325	2,177	14,783	12,363	19.6
Construction machinery.....	3,104	3,065	3,173	1.3	-3.4	1.8	3,261	3,226	3,482	2,432	15,643	13,015	20.2
Mining, oil field, and gas field machinery.....	1,293	1,309	1,295	-1.2	1.1	2.0	1,242	1,229	1,420	1,190	6,269	7,092	-11.6
Industrial machinery.....	4,519	4,363	3,599	3.6	21.2	12.2	4,440	3,944	4,160	2,920	18,151	14,484	25.3
Photographic equipment.....	542	538	520	0.7	3.5	0.8	503	473	610	453	2,489	2,324	7.1
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,121	4,112	4,027	0.2	2.1	-2.8	4,367	4,186	4,326	3,689	19,539	17,031	14.7

National Center for Science and Engineering Statistics | NSF 19-323

TABLE 2

Total R&D performance for companies with 1–4 employees, by industry and type of R&D: 2016
(Thousands of U.S. dollars)

Industry	NAICS code	Total	Basic research	Applied research	Development
All industries	21–23, 31–33, 42–81	4,843,494	409,200	1,852,038	2,582,255
Manufacturing industries	31–33	554,091	36,282	222,024	295,786
Food	311	s	0	s	s
Beverage and tobacco products	312	s	0	s	0
Textiles, apparel, and leather products	313–16	s	s	s	s
Wood products	321	s	s	s	s
Paper	322	0	0	0	0
Printing and related support activities	323	s	s	s	s
Petroleum and coal products	324	936	0	0	s
Chemicals	325	118,986	4,682	57,621	56,682
Basic chemicals	3251	s	0	s	s
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,490	83	584	823
Pesticides, fertilizers, and other agricultural chemicals	3253	26	0	26	0
Pharmaceuticals and medicines	3254	73,993	2,580	22,917	48,496
Soaps, cleaning compounds, and toilet preparations	3256	s	s	s	s
Paints, coatings, adhesives, and other chemicals	3255, 3259	17,592	1,987	8,721	6,885

The NAICS Website

Key Features:

- Search
- Reference Files
- Federal Register Notices

United States[®]
Census
Bureau

North American Industry Classification System

Main

History

Development Partners

Federal Register Notices

FAQs

Reference Files ▾

NAPCS

NAICS Search

Enter keyword or 2-6 digit code

2017 NAICS Search

Go

Enter keyword or 2-6 digit code

2012 NAICS Search

Go

Enter keyword or 2-6 digit code

2007 NAICS Search

Go

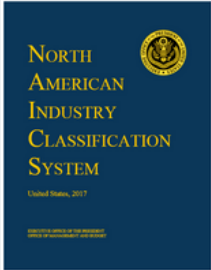
Introduction to NAICS

The North American Industry Classification System (NAICS) is the standard used by Federal statistical agencies in classifying business establishments for the purpose of collecting, analyzing, and publishing statistical data related to the U.S. business economy.

NAICS was developed under the auspices of the Office of Management and Budget (OMB), and adopted in 1997 to replace the [Standard Industrial Classification \(SIC\) system](#). It was developed jointly by the [U.S. Economic Classification Policy Committee \(ECPC\)](#), [Statistics Canada](#) ↗, and Mexico's [Instituto Nacional de Estadística y Geografía](#) ↗, to allow for a high level of comparability in business statistics among the North American countries.

This official U.S. Government Web site provides the latest information on plans for NAICS revisions, as well as access to various NAICS reference files and tools. Additional information on the background and development of NAICS is available in the [History](#) section of this Web site.

2017 NAICS Manual



[View or download this publication](#)
[PDF, 7.5MB]

Reference Files

[2017 NAICS](#)
[2012 NAICS](#)
[2007 NAICS](#)
[2002 NAICS](#)
[1997 NAICS](#)
[Concordances](#)
[Downloadable Files](#)

Announcements

January 28, 2021 Welcome to the transformed site, which delivers an improved look and feel as well as enhanced mobile device capabilities. At this time, users will no longer be able to access the previous version of the site.

February 26, 2020 [PDF, 281KB] 2017 North American Industry Classification System (NAICS) - Updates for 2022; Update of Statistical Policy Directive No. 8, Standard Industrial Classification of Establishments; and Elimination of Statistical Policy Directive No. 9, Standard Industrial Classification of Enterprises.; Notice. Vol. 85, No. 38

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A Summary of NAICS Changes: 2012 to 2017

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
211111	Crude Petroleum and Natural Gas Extraction		
	<i>crude petroleum extraction</i>	211120	Crude Petroleum Extraction
	<i>natural gas extraction</i>		
211112	Natural Gas Liquid Extraction	211130	Natural Gas Extraction
212231	Lead Ore and Zinc Ore Mining		
212234	Copper Ore and Nickel Ore Mining	212230	Copper, Nickel, Lead, and Zinc Mining

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
333911	Pump and Pumping Equipment Manufacturing		
333913	Measuring and Dispensing Pump Manufacturing	333914	Measuring, Dispensing, and Other Pumping Equipment Manufacturing
335221	Household Cooking Appliance Manufacturing		
335222	Household Refrigerator and Home Freezer Manufacturing		
335224	Household Laundry Equipment Manufacturing	335220	Major Household Appliance Manufacturing
335228	Other Major Household Appliance Manufacturing		

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
452111	Department Stores (except Discount Department Stores)		
452112	Discount Department Stores	452210	Department Stores
	<i>insignificant perishable grocery sales</i>		
	<i>significant perishable grocery sales</i>		
452910	Warehouse Clubs and Supercenters	452311	Warehouse Clubs and Supercenters
452990	All Other General Merchandise Stores	452319	All Other General Merchandise Stores
454111	Electronic Shopping		
454112	Electronic Auctions	454110	Electronic Shopping and Mail-Order Houses
454113	Mail-Order Houses		

A Summary of NAICS Changes: 2012 to 2017 (cont.)

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
512210	Record Production		
512220	Integrated Record Production/Distribution	512250	Record Production and Distribution
517110	Wired Telecommunications Carriers	517311	Wired Telecommunications Carriers
517210	Wireless Telecommunications Carriers (except Satellite)	517312	Wireless Telecommunications Carriers (except Satellite)

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
532220	Formal Wear and Costume Rental	532281	Formal Wear and Costume Rental
532230	Video Tape and Disc Rental	532282	Video Tape and Disc Rental
532291	Home Health Equipment Rental	532283	Home Health Equipment Rental
532292	Recreational Goods Rental	532284	Recreational Goods Rental
532299	All Other Consumer Goods Rental	532289	All Other Consumer Goods Rental

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
541711	Research and Development in Biotechnology nanobiotechnologies research and experimental development laboratories except nanobiotechnologies research and experimental development laboratories	541713	Research and Development in Nanotechnology
		541714	Research and Development in Biotechnology (except Nanobiotechnology)
541712	Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology) nanotechnology research and experimental development laboratories except nanotechnology research and experimental development laboratories	541713	Research and Development in Nanotechnology
		541715	Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)

Four Scenarios Shown in the Bridge Report

- Recodes
 - Content of the current and prior codes are the same, but the code changed.
- Full Consolidations
 - 2+ complete industries were combined to form a new industry.
- Partial Consolidations
 - Parts of 2 or more industries were combined to form a new industry.
- Splitters
 - An industry was split into 2+ new industries.
 - None of these for the 2017 NAICS.

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
532220	Formal Wear and Costume Rental	532281	Formal Wear and Costume Rental
532230	Video Tape and Disc Rental	532282	Video Tape and Disc Rental
532291	Home Health Equipment Rental	532283	Home Health Equipment Rental
532292	Recreational Goods Rental	532284	Recreational Goods Rental
532299	All Other Consumer Goods Rental	532289	All Other Consumer Goods Rental

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
454111	Electronic Shopping	454110	Electronic Shopping and Mail-Order Houses
454112	Electronic Auctions		
454113	Mail-Order Houses		

2012 NAICS Code	2012 NAICS U.S. Description	2017 NAICS Code	2017 NAICS U.S. Description
452111	Department Stores (except Discount Department Stores)	452210	Department Stores
452112	Discount Department Stores		
	<i>insignificant perishable grocery sales</i>		
	<i>significant perishable grocery sales</i>	452311	Warehouse Clubs and Supercenters
452910	Warehouse Clubs and Supercenters		

The Comparative Statistics Report

All Sectors: Comparative Statistics for the U.S., States, and Selected Geographies (2012 NAICS Basis): 2017 and 2012

Survey/Program: Economic Census TableID: EC1700COMP Year: 2017 Dataset: ECNCOMP2017

Notes Selections Geos Years Topics 1 Survey 10 Codes Hide Transpose Filter Margin of Error Restore Excel Download Print More Data Map

2012 NAICS code	Meaning of NAICS code	Year	Number of establishments	Sales, value of shipments,...	Annual payroll (\$1,000)	Number of employees
452	General merchandise stores	2012	49,147	640,626,768	58,048,133	2,772,612
452	General merchandise stores	2017	53,777	690,326,424	67,538,605	2,793,342
4521	Department stores	2012	8,064	177,312,596	19,399,171	1,047,627
4521	Department stores	2017	6,896	146,654,259	17,894,879	838,307
45211	Department stores	2012	8,064	177,312,596	19,399,171	1,047,627
45211	Department stores	2017	6,896	146,654,259	17,894,879	838,307
452111	Department stores (except discount department stores)	2012	3,339	62,961,094	8,650,547	449,216
452111	Department stores (except discount department stores)	2017	D	D	D	100,000 employees or more
452112	Discount department stores	2012	4,725	114,351,502	10,748,624	598,411
452112	Discount department stores	2017	D	D	D	100,000 employees or more
4529	Other general merchandise stores	2012	41,083	463,314,172	38,648,962	1,724,985
4529	Other general merchandise stores	2017	46,881	543,672,165	49,643,726	1,955,035
45291	Warehouse clubs and supercenters	2012	5,114	406,309,154	33,279,751	1,394,352
45291	Warehouse clubs and supercenters	2017	5,640	470,179,794	42,686,887	1,520,139
452910	Warehouse clubs and supercenters	2012	5,114	406,309,154	33,279,751	1,394,352
452910	Warehouse clubs and supercenters	2017	5,640	470,179,794	42,686,887	1,520,139
45299	All other general merchandise stores	2012	35,969	57,005,018	5,369,211	330,633
45299	All other general merchandise stores	2017	41,241	73,492,371	6,956,839	434,896
452990	All other general merchandise stores	2012	35,969	57,005,018	5,369,211	330,633
452990	All other general merchandise stores	2017	41,241	73,492,371	6,956,839	434,896

- Publishes data on the prior NAICS basis.
 - For the 2017 EC, published on the 2012 NAICS basis.
- Includes nearly all 2- thru 6-digit NAICS codes.
- Data shown includes 4 basic statistics for 2017 and 2012.
- Allows users to accurately compare 2017 and 2012 data and know that the industry classification system is consistent.
- General Comparability Note: Users still need to confirm that other characteristics (like geographies) are consistent.

The Bridge Statistics Report

- Publishes 2017 data on the current and prior NAICS basis.
- Only includes industries that have changed since the prior vintage.
- Data shown includes the total for the industry and the 1 or more full or part industries that make up that total (both directions) for 2017 only.
- Allows users to accurately compare current and prior data and decide if the industry change is significant for their use.
- General Comparability Note: Users still need to confirm that other characteristics (like geographies) are consistent.

Selected Sectors: Industry Bridge Statistics on 2017 NAICS Basis With Distribution Among 2012 NAICS-Based Industries for the U.S.: 2017

Survey/Program: Economic Census TableID: EC1700BRIDGE1 Year: 2017 Dataset: ECNBRIDGE12017

Notes Selections Geos Years Topics 1 Survey 3 Codes Hide Transpose Filter Margin of Error Restore Excel Download Print More Data Map

2017 ...	Meaning of NAICS code	2012 ...	Meaning of NAICS bridge code	Year	Number of establishments	Sales, value of shipments,...	Annual payroll (\$1,000)	Number of employees
452210	Department stores	00000000	Industry total	2017	4,334	66,633,116	9,835,725	481,601
452210	Department stores	45211100	Department stores (except discount department stores)	2017	D	D	D	100,000 employees or more
452210	Department stores	45211200	Discount department stores	2017	D	D	D	100,000 employees or more
452311	Warehouse clubs and supercenters	00000000	Industry total	2017	8,202	550,200,937	50,746,041	1,876,845
452311	Warehouse clubs and supercenters	45211200	Discount department stores	2017	2,562	80,021,143	8,059,154	356,706
452311	Warehouse clubs and supercenters	45291010	Warehouse clubs	2017	1,438	152,593,674	9,618,439	270,425
452311	Warehouse clubs and supercenters	45291020	Supercenters	2017	4,202	317,586,120	33,068,448	1,249,714
452319	All other general merchandise stores	00000000	Industry total	2017	41,241	73,492,371	6,956,839	434,896
452319	All other general merchandise stores	45299010	Variety stores	2017	32,242	51,512,643	4,735,799	316,562
452319	All other general merchandise stores	45299040	Miscellaneous general merchandise stores	2017	8,999	21,979,728	2,221,040	118,334

Selected Sectors: Industry Bridge Statistics on 2012 NAICS Basis With Distribution Among 2017 NAICS-Based Industries for the U.S.: 2017

Survey/Program: Economic Census TableID: EC1700BRIDGE2 Year: 2017 Dataset: ECNBRIDGE22017

Notes Selections Geos Years Topics 1 Survey 3 Codes Hide Transpose Filter Margin of Error Restore Excel Download Print More Data Map

2012 ...	Meaning of NAICS code	2017 ...	Meaning of NAICS bridge code	Year	Number of establishments	Sales, value of shipments,...	Annual payroll (\$1,000)	Number of employees
452111	Department stores (except discount department stores)	00000000	Industry total	2017	D	D	D	100,000 employees or more
452111	Department stores (except discount department stores)	45221010	Department stores (except discount department stores)	2017	D	D	D	100,000 employees or more
452112	Discount department stores	00000000	Industry total	2017	D	D	D	100,000 employees or more
452112	Discount department stores	45221020	Discount department stores with insignificant perishable grocery sales	2017	D	D	D	100,000 employees or more
452112	Discount department stores	45231122	Discount department stores with significant perishable grocery sales	2017	2,562	80,021,143	8,059,154	356,706
452910	Warehouse clubs and supercenters	00000000	Industry total	2017	5,640	470,179,794	42,686,887	1,520,139
452910	Warehouse clubs and supercenters	45231110	Warehouse clubs	2017	1,438	152,593,674	9,618,439	270,425
452910	Warehouse clubs and supercenters	45231121	Supercenters	2017	4,202	317,586,120	33,068,448	1,249,714

Summary

- Census has A LOT of business data.
 - Help us promote its use!
- Census data are most effective when they are merged across programs.
 - Users need to know the characteristics of the data they are merging!
- NAICS changes can be subtle or significant.
 - The Comparative and Bridge reports help YOU make the decision about which is which.
- These reports should be included in your “data toolbox” whenever you’re using data that is classified by NAICS.
 - Like a level or plumb bob to a carpenter.

Q & A and Thank You!

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